LAX PROJECT ID: 5 65-00-7 A.A.D.T. A.A.D.T. D.H.V. D.D. DESIGN SPEED **ESALS** CONVENTIONAL SYMBOLS CORPORATE LIMITS LOT LINE

DECEN	/IBE	R 2018
45555	~=	CULTETC

ORDER OF SHEETS

Section No. 1

Typical Sections and Details Section No. 2 Estimate of Quantities

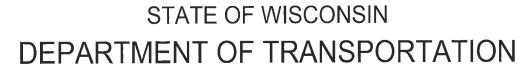
Miscellaneous Quantitles

Plan and Profile (Incl. Erosion Control) Standard Detail Drawings

Computer Earthwork Data

Cross Sections

TOTAL SHEETS =



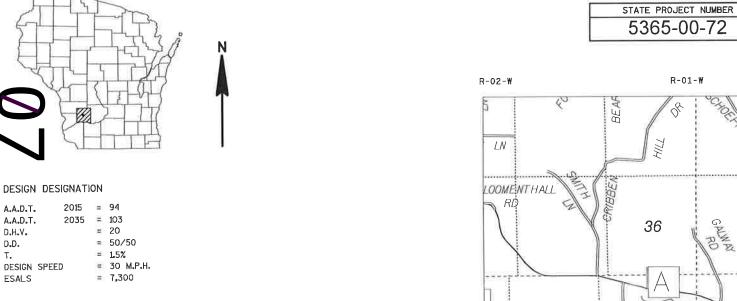
PLAN OF PROPOSED IMPROVEMENT

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT PROJECT ID 5365-00-72

TOWN OF RICHLAND, COVERED BRIDGE ROAD

(HORSE CREEK BRIDGE B-52-0274)

LOCAL STREET RICHLAND COUNTY



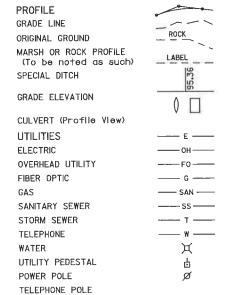
//////// PROPERTY LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT ----

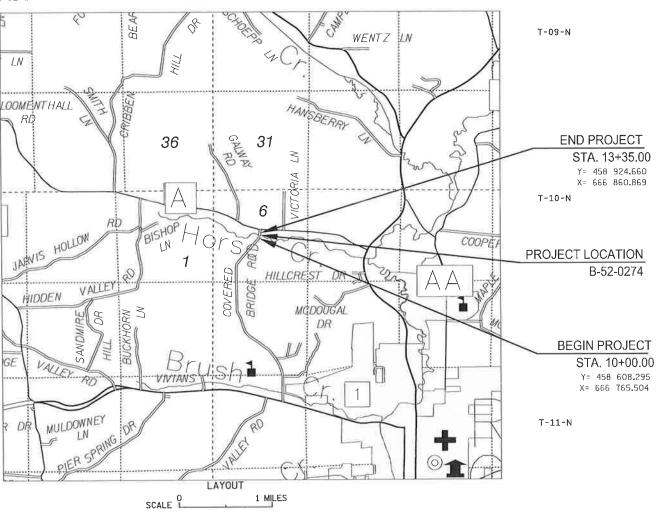
CAUTION

PROPOSED CULVERT COMBUSTIBLE FLUIDS HIGH VOLTAGE

MARSH AREA

WOODED OR SHRUB AREA





TOTAL NET LENGTH OF CENTERLINE = 0.063 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, RICHLAND COUNTY, NADB3 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ACCEPTED FOR Chairman ACCEPTED FOR ORIGINAL PLANS PREPARED BY 619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 588-7954 RICHLAND CENTER, STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION WESTBROOM Surveyor **WESTBROOM** Designer KL ENGINEERING, INC. APPROVED FOR THE DEPARTMENT

R-01-E

INV IP Invert Iron Pipe or Pin Iron Rod Set

STANDARD ABBREVIATIONS

ABUT.	Abutment	JT	Joint	SEC	Section
AC	Acre	JCT	Junction	SHLDR	Shoulder
AGG.	Aggregate	LHF	Left-Hand Forward	SHR	SHRINKAGE
AH	Ahead	L	Length of Curve	SW	Sidewalk
<	Angle	LIN FT OR LF	Linear Foot	S	South
ASPH	Asphaltic	LC	Long Chord of Curve	SQ	Square
AVG.	Average	МН	Manhole	SF OR SQ FT	Square Feet
A.D.T	Average Daily Traffic	мв	Mailbox	SY or SQ YD	Square Yard
BAD	Base Aggregate Dense	ML OR M/L	Match Line	STD	Standard
BK	Back	N	North	SDD	Standard Detail Drawings
BF	Back Face	Y	North Grid Coordinate	STH	State Trunk Highway
B.M.	Bench Mark	OD	Outside Diameter	STA	Station
BR.	Bridge	PLE	Permanent Limited Easement	SS	Storm Sewer
C/L	Center Line	PT	Point	SG	Subgrade
ĊĆ _	Center to Center	PC	Point of Curvature	SE	Superelevation
CTH	County Trunk Highway	PI	Point of Intersection	SL or S/L	Survey Line
CR.	Creek	PRC	Point of Reverse Curvature	SV	Septic Vent
CY or CU YD	Cubic Yard	PT	Point of Tangency	Ť	Tangent
CP	Culvert Pipe	POC	Point on Curve	TEL	Telephone
C & G	Curb and Gutter	PVC	Polyvinyl Chloride	TEMP	Temporary
D	Degree of Curve	PCC	Portland Cement Concrete	TI	Temporary Interest
DHV	Design Hour Volume	LB	Pound	t	Ton
DIA	Diameter	PSI	Pounds Per Square Inch	T or TN	Town
E	East	PE	Private Entrance	TRANS	Transition
X	East Grid Coordinate	R	Radius	TL OR T/L	Transit Line
ELEC	Electric	RR	Railroad	T	Trucks (percent of)
EL OR ELEV	Elevation	RL OR R/L	Reference Line	TYP	Typical
ESALS	Equivalent Single Ac=xle Loads	RP .	Reference Point	UNCL	Unclassified
EBS	Excavation Below Subgrade	RCCP	Reinforced Concrete Culvert Pipe	UG	Underground Cable
FF	Face to Face	REQD	Required	USH	United States Highway
FE	Field Entrance	RES	Residence or Residential	VAR	Variable
F	Fill	RW	Retaining Wall	V	Velocity or Design Speed
FG	Finished Grade	RT	Right	VERT	Vertical
FL or F/L	Flow Line	RHF	Right—Hand Forward	VC	Vertical Curve
FT	Foot	R/W	Right-of-Way	VOL	Volume
FTG	Footing	R_	River	WM	Water Main
GN	Grid North	RD	Road	wv	Water Valve
HT_	Height	RDWY	Roadway	W	West
CWT	Hundredweight	SALV	Salvaged	WB	Westbound
HYD	Hydrant	SAN S	Sanitary Sewer	YD	Yard
INL	inlet				
ID.	Inside Diameter				

ORDER OF SECTION 2 SHEETS

GENERAL NOTES TYPICAL SECTIONS ALIGNMENT DETAILS

RUNOFF COEFFICIENT TABLE

HYDROLOGIC SOIL GROUP												
			A	В					С	D		
			RANGE CENT)	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)				
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT						.70 — .	95					
CONCRETE						.80 – .						
	BRICK .7080											
	DRIVES, WALKS .7585											
	ROOFS .75 – .95											
GRAVEL ROADS, SH	IOULDE	RS				.40 – .	60					

TOTAL PROJECT AREA = 0.37 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.31 ACRES

<u>CONTACTS</u>

CONSULTANT LIAISON

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E. PH: (608) 588-7866 FAX: (608) 588-7954 aplamer@westbrookeng.com

COUNTY LIAISON

RICHLAND COUNTY HIGHWAY DEPT. 120 BOWEN CIRCLE RICHLAND CENTER, WI 53581

ATTN: BILL CONDON PH: (608) 647-4707 bill.condon@co.richland.wi.us WisDNR LIAISON

DNR SOUTH CENTRAL REGION HQ 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

ATTN: ANDY BARTA PH: (608) 275-3308 andrew.barta@wisconsin.gov

UTILITIES

ELECTRIC AND GAS
ALLIANT ENERGY
ATTN: CHRIS CHITWOOD
SUITE 1000
4902 N BILTMORE LANE
MADISON, W 53718
(608) 458-4871
chrischitwood@olliantenergy.com

COMMUNICATIONS
FRONTIER
ATTN: JERRY MOORE
2222 WEST WISCONSIN STREET
PORTAGE, WI 53901
(608) 742-9507
jerald.r.moore@ftr.com



**DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE DRIVING LANES AND THE SHOULDERS ARE TO BE FERTILIZED, SEEDED, TEMPORARY SEEDED, AND MULCHED, OR AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 3 LBS PER 1000 SQUARE FEET.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

WETLANDS ARE PRESENT AT THE LOCATIONS SHOWN IN THE PLANS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS IN THESE LOCATIONS.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES.

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED, AS DIRECTED BY THE ENGINEER.

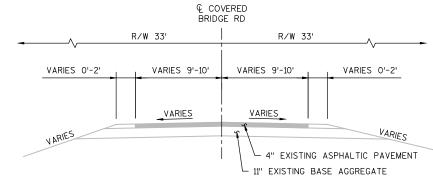
COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), RICHLAND COUNTY, HORIZONTAL DATUM NAD83, ELEVATION DATUM NAVD88.

ASPHALTIC SURFACE LAYERS:

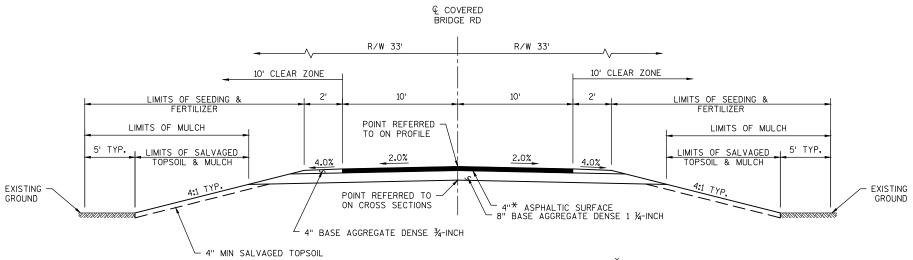
- UPPER: 1¾" (12.5 MM NOMINAL SIZE) - LOWER: 2¼" (12.5 MM NOMINAL SIZE)

PROJECT NO:5365-00-72 HWY:COVERED BRIDGE ROAD COUNTY:RICHLAND GENERAL NOTES SHEET E



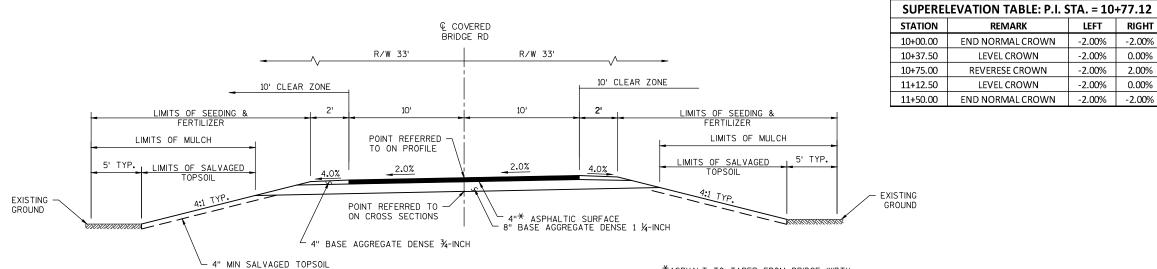


TYPICAL EXISTING SECTION



TYPICAL FINISHED SECTION STA. 11+50 - STA. 13+35

*ASPHALT TO TAPER FROM BRIDGE WIDTH TO 20' AT 30' FROM BRIDGE ENDS.



*ASPHALT TO TAPER FROM BRIDGE WIDTH TO 20' AT 30' FROM BRIDGE ENDS.

TYPICAL FINISHED SUPERELEVATED SECTION

STA. 10+00 - STA. 11+50

TYPICAL SECTIONS PROJECT NO:5365-00-72 HWY: COVERED BRIDGE ROAD COUNTY: RICHLAND SHEET PLOT NAME :

REMARK

END NORMAL CROWN

LEVEL CROWN

REVERESE CROWN

LEVEL CROWN

END NORMAL CROWN

LEFT

-2.00%

-2.00%

-2.00%

-2.00%

-2.00%

RIGHT

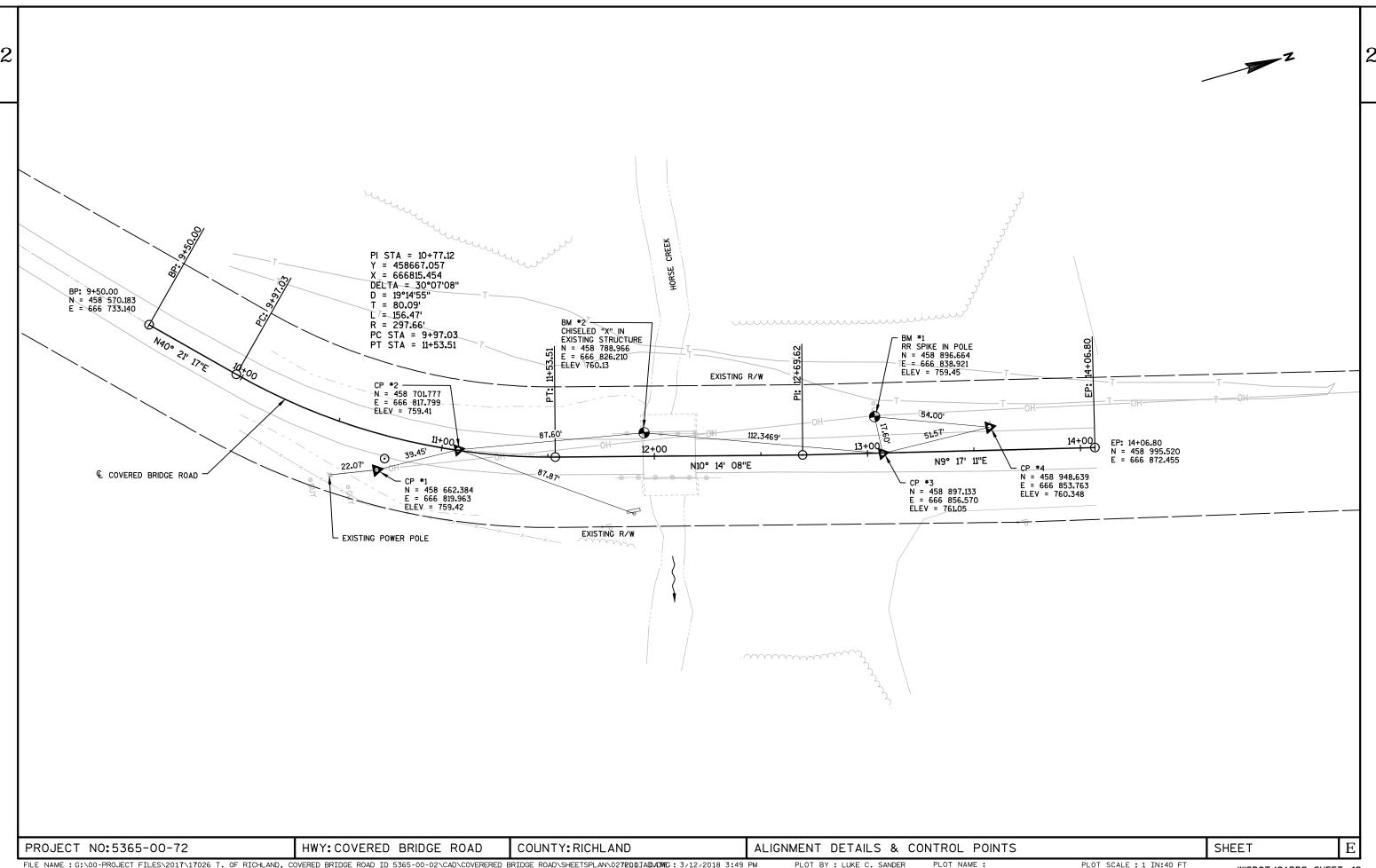
-2.00%

0.00%

2.00%

0.00%

-2.00%



					5365-00-72
Line	Item	Item Description	Unit	Total	Qty
0002	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 12+07	LS	1.000	1.000
0004	204.0165	Removing Guardrail	LF	100.000	100.000
0006	205.0100	Excavation Common	CY	280.000	280.000
8000	206.1000	Excavation for Structures Bridges (structure) 01. B-52-0274	LS	1.000	1.000
0010	210.1500	Backfill Structure Type A	TON	480.000	480.000
0012	213.0100	Finishing Roadway (project) 01. 5356-00-72	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	45.000	45.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	440.000	440.000
0018	455.0605	Tack Coat	GAL	37.000	37.000
0020	465.0105	Asphaltic Surface	TON	150.000	150.000
0022	502.0100	Concrete Masonry Bridges	CY	146.000	146.000
0024	502.3200	Protective Surface Treatment	SY	165.000	165.000
0026	505.0400	Bar Steel Reinforcement HS Structures	LB	4,330.000	4,330.000
0028	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	16,670.000	16,670.000
0030	513.4061	Railing Tubular Type M 01. B-52-0274	LF	80.000	80.000
0032	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0034	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	700.000	700.000
0036	606.0300	Riprap Heavy	CY	55.000	55.000
0038	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	140.000	140.000
0040	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
		5365-00-72			
0042	619.1000	Mobilization	EACH	1.000	1.000
0044	624.0100	Water	MGAL	22.000	22.000
0046	625.0500	Salvaged Topsoil	SY	359.000	359.000
0048	627.0200	Mulching	SY	622.000	622.000
0050	628.1504	Silt Fence	LF	800.000	800.000
0052	628.1520	Silt Fence Maintenance	LF	800.000	800.000
0054	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0056	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0058	628.6005	Turbidity Barriers	SY	100.000	100.000
0060	629.0210	Fertilizer Type B	CWT	1.000	1.000
0062	630.0120	Seeding Mixture No. 20	LB	30.000	30.000
0064	630.0200	Seeding Temporary	LB	30.000	30.000
0066	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0068	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0070	638.2602	Removing Signs Type II	EACH	4.000	4.000
0072	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0072	642.5001	Field Office Type B	EACH	1.000	1.000
0074	042.3001	rield Office Type b	EACH	1.000	1.000

Page 2 **Estimate Of Quantities**

					5365-00-72
Line	Item	Item Description	Unit	Total	Qty
0076	643.0420	Traffic Control Barricades Type III	DAY	1,098.000	1,098.000
0078	643.0705	Traffic Control Warning Lights Type A	DAY	1,708.000	1,708.000
0800	643.0900	Traffic Control Signs	DAY	854.000	854.000
0082	643.5000	Traffic Control	EACH	1.000	1.000
0084	645.0111	Geotextile Type DF Schedule A	SY	86.000	86.000
0086	645.0120	Geotextile Type HR	SY	145.000	145.000
8800	650.4500	Construction Staking Subgrade	LF	300.000	300.000
0090	650.5000	Construction Staking Base	LF	300.000	300.000
0092	650.6500	Construction Staking Structure Layout (structure) 01. B-52-0274	LS	1.000	1.000
0094	650.9910	Construction Staking Supplemental Control (project) 01. 5365-00-72	LS	1.000	1.000
0096	650.9920	Construction Staking Slope Stakes	LF	300.000	300.000
0098	690.0150	Sawing Asphalt	LF	44.000	44.000
0100	715.0502	Incentive Strength Concrete Structures	DOL	876.000	876.000

REMOVING GUARDRAIL

EARTHWORK SUMMARY

FILL EXPANSION = 30%

205.0100

				204.0165			205.0100		
				REMOVING			COMMON		
				GUARDRAIL			EXCAVATION		EXPAN
STATION	_	STATION	LOCATION	(LF)			**P**	FILL	FILL
44.00				, ,	STATION - STATION	LOCATION	(CY)	(CY)	(CY)
11+80	-	12+30	Mainline, RT.		40.00.00 44.00.05	NA A IN II IN II	407	0.5	40
11+81	-	12+31	Mainline, LT.	50	10+00.00 - 11+88.25	MAINLINE	167	35	46
			TOTALS	100	12+25.75 - 13+35.00	MAINLINE	113	14	18
						TOTALS	280	49	64

BASE AGGREGA	TE DENSE
---------------------	----------

			305.0110 3/4-INCH SHLD.	305.0120 1 1/4-INCH BASE	624.0100 WATER*
STATION -	STATION	LOCATION	(TON)	(TON)	(MGAL)
10+00.00 - 12+25.75 -	11+88.25 13+35.00	MAINLINE MAINLINE	29 16	278 162	5 3
		TOTALS	45	440	8

^{*}ADDITIONAL QUANTITY INCLUDED WITH EROSION CONTROL ITEMS

ASPHALTIC ITEMS

STATION - STATION	LOCATION	465.0105 ASPHALTIC SURFACE (TON)	455.0600 TACK COAT (GAL)
10+00.00 - 11+88.25 12+25.75 - 13+35.00	MAINLINE MAINLINE	95 55	23 14
_	TOTALS	150	37

TOTALS

MAINTENANCE AND REPAIR OF HAUL ROADS

618.0100** ID 5365-00-72

(EACH)

1

1.0

LOCATION

PROJECT

FINISHING ITEMS

		625.0500	627.0200	629.0210	630.0200	630.0120	624.0100
		SALVAGED		FERTILIZER	SEEDING	SEEDING	
		TOPSOIL	MULCHING	TYPE B	TEMPORARY	NO. 20	WATER*
STATION - STATION	LOCATION	(SY)	(SY)	(CWT)	(LB)	(LB)	(MGAL)
10+00.00 - 11+88.25	MAINLINE	211	370	0.4	16	16	8
12+25.75 - 13+35.00	MAINLINE	104	182	0.2	9	9	4
	UNDISTRIBUTED	44	70	0.4	5	5	2
	TOTALS	359	622	1	30	30	14

^{*}ADDITIONAL QUANTITY INCLUDED WITH BASE AGGREGATE ITEMS

SILT FENCE

 STATION	_	STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)
10+00	-	11+99	LT	187	187
10+00	-	12+02	RT	215	215
12+11	-	13+35	LT	125	125
12+14	-	13+35	RT	122	122
			UNDISTRIBUTED	151	151
			TOTALS	800	800

^{**}CATEGORY 30 ITEM

SIGNS

TURBIDITY BARRIER

LOCATION	628.6005 (SY)
SOUTH ABUTMENT NORTH ABUTMENT	50 50
TOTAL	100

				637.223	634.0612	638.2602	638.3	
		SIGN		SIGNS TYPE II REFFLECTIVE F	POSTS WOOD 4X6-IN X 12-FT	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	
STATION	LOCATION	CODE	SIZE	(SF)	(EACH)	(EACH)	(EACH)	COMMENTS
11+80	LT	W5-52L	12"x36"	3	1	1	1	OBJECT MARKER
11+80	RT	W5-52R	12"x36"	3	1	1	1	OBJECT MARKER
12+30	LT	W5-52L	12"x36"	3	1	1	1	OBJECT MARKER
12+30	RT	W5-52R	12"x36"	3	1	1	1	OBJECT MARKER
		TOTA	ALS	12	4	4	4	

TRAFFIC CONTROL ITEMS

EROSION CONTROL MOBILIZATIONS

	LOCATION	628.1905 MOBILIZATION (EACH)	628.1520 EMERGENCY MOB. (EACH)
	PROJECT 5365-00-72	2	2
-	TOTALS	2	2

	DURATION	BARR	.0420 ICADES, PE III	WARNIN	.0705 G LIGHTS, PE A	TRAFFIC	.0900 CONTROL SNS	643.5000 TRAFFIC CONTROL
LOCATION	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	EACH
AS DIRECTED BY ENGINEER	61	18	1098	28	1708	14	854	
COVERED BRIDGE RD								1
		18	1098	28	1708	14	854	1

PLACE TRAFFIC CONTROL IN ACCORDANCE WITH SDD 15C2

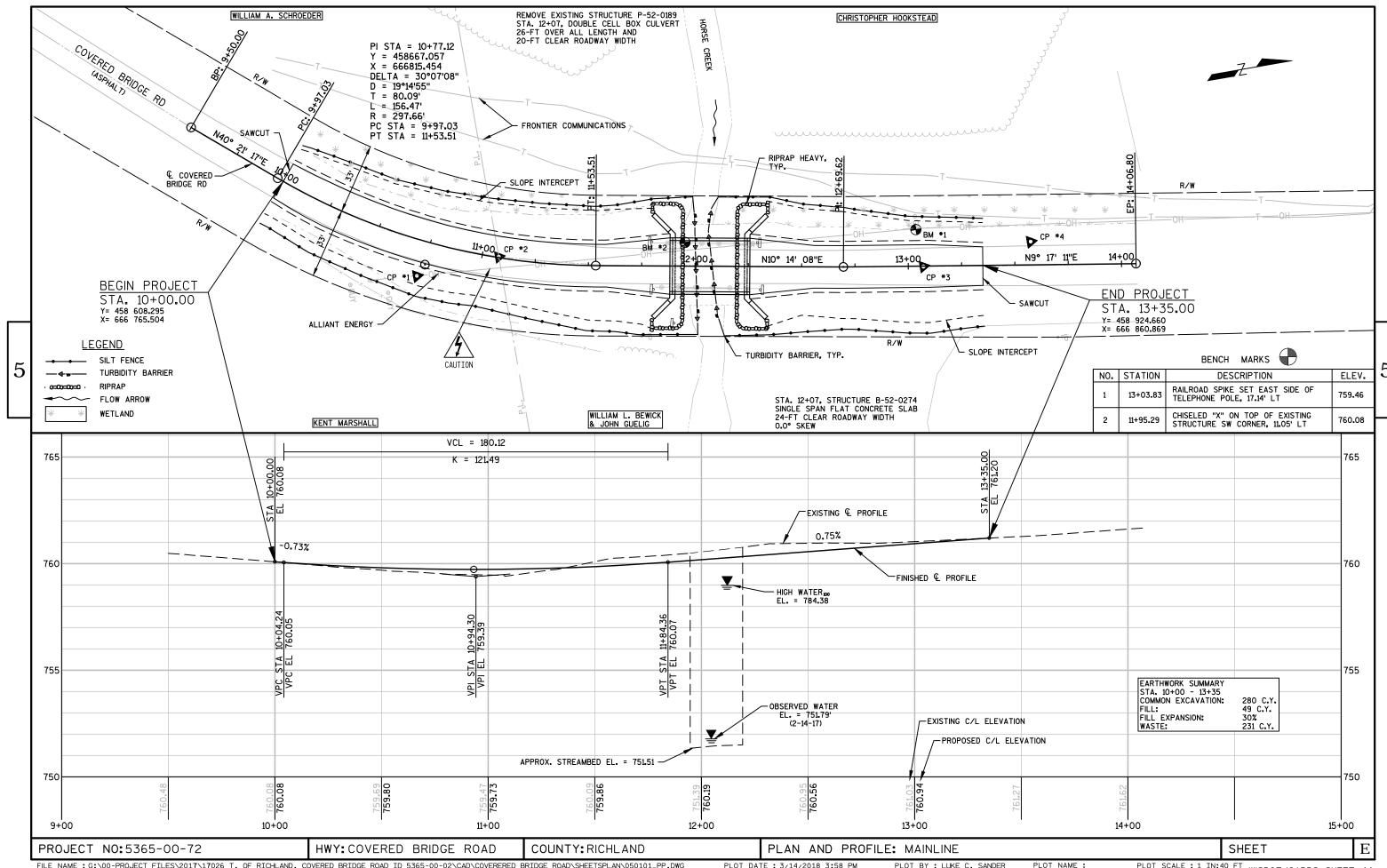
SAWING EXISTING PAVEMENT

			690.0150
_	STATION	LOCATION	(L.F.)
	10+00.00	MAINLINE	22
	13+35.00	MAINLINE	22
	TOTAL		44

LAYOUT ITEMS

				650.6500	650.9910	650.9920
		650.4500	650.5000	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION
		CONSTRUCTION	CONSTRUCTION	STAKING STRUCTURE	STAKING SUPP.	STAKING
		STAKING	STAKING	LAYOUT	CONTROL	SLOPE
		SUBGRADE	BASE	(B-52-0274)	(ID 5365-00-72)	STAKES
CATEGORY	LOCATION	(LF)	(LF)	(LUMP)	(LUMP)	(LF)
10	10+00 - 13+35	300	300		1	300
20	B-52-0274	 -		1		
	TOTALS	300	300	1	1	300

LF	PROJECT NO:5365-00-72	HWY: COVERED BRIDGE ROAD	COUNTY: RICHLAND	MISCELLANEOUS QUANTITIES	SHEET	E
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Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SLGNS TO POSTS

6

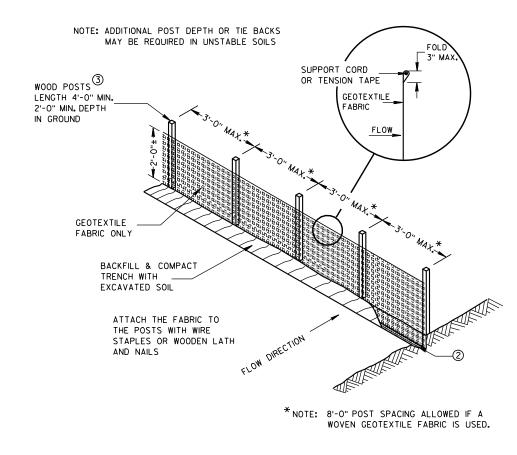
TYPICAL APPLICATION OF SILT FENCE

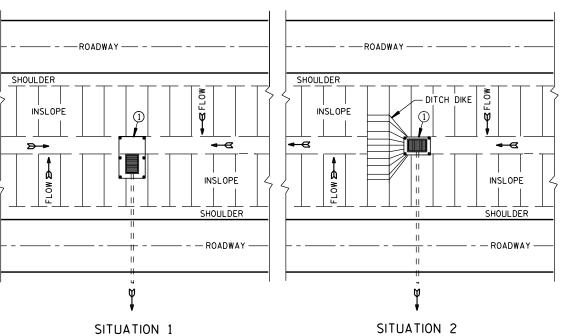
6

b

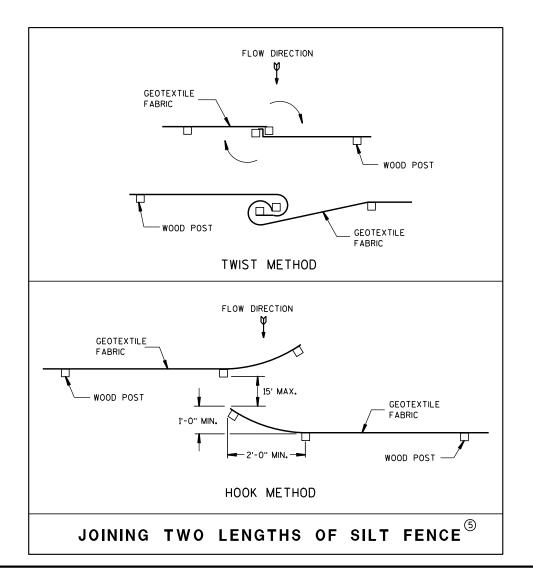
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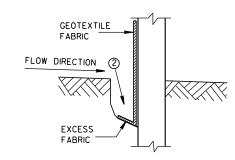
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



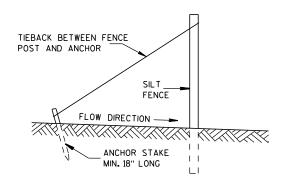
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

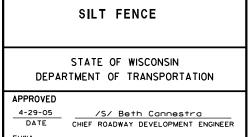


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

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GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER ∞

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

|--|

3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

2

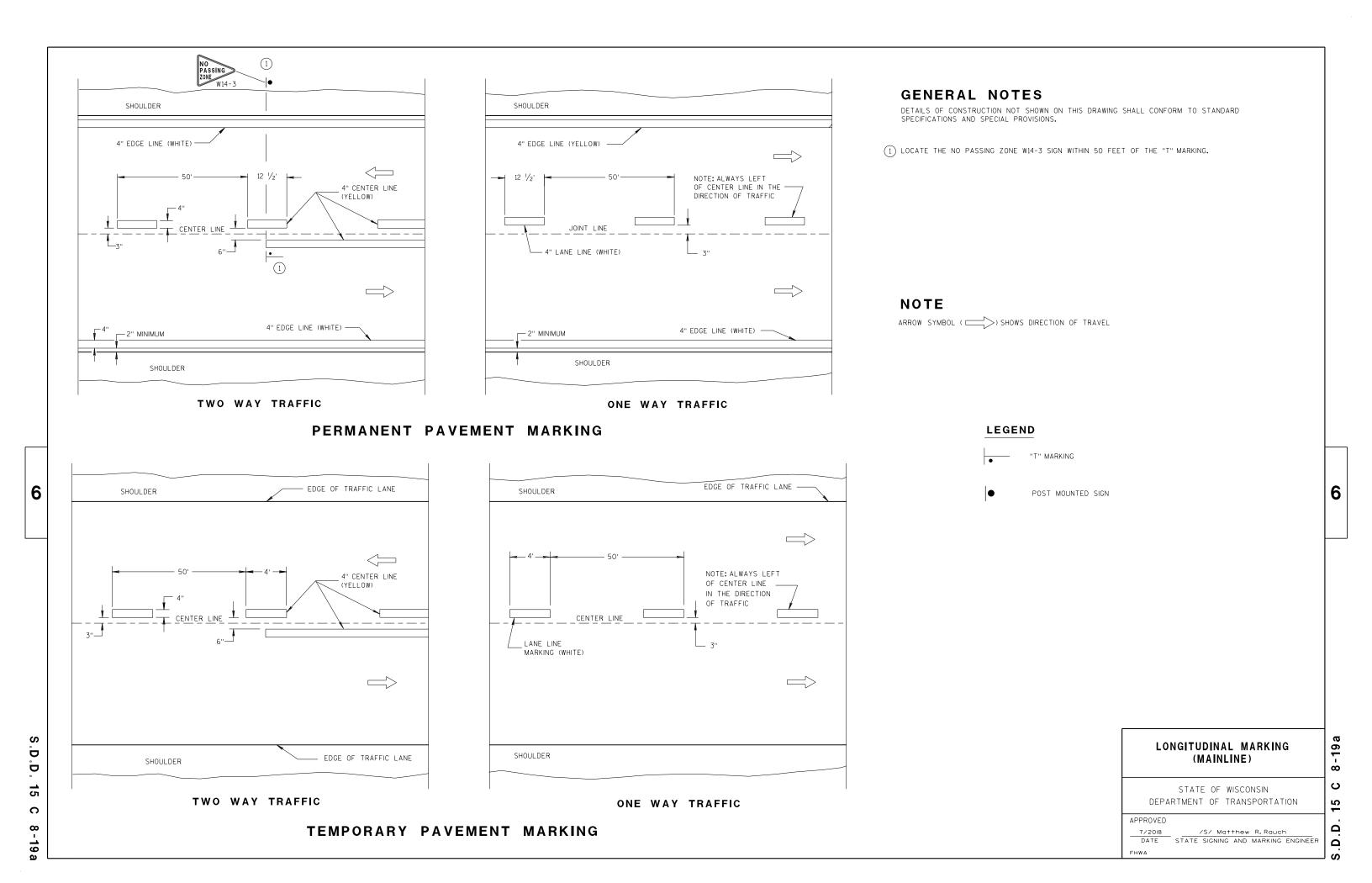
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER







TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

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- 11/2" DIAMETER HOLES

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NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 1/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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38-2b

URBAN ARFA



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生) A POLICE AND A POL D^{-1} Outside Edae of Gravel

White Edgeline Location

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY : mscj9h

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (\pm).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

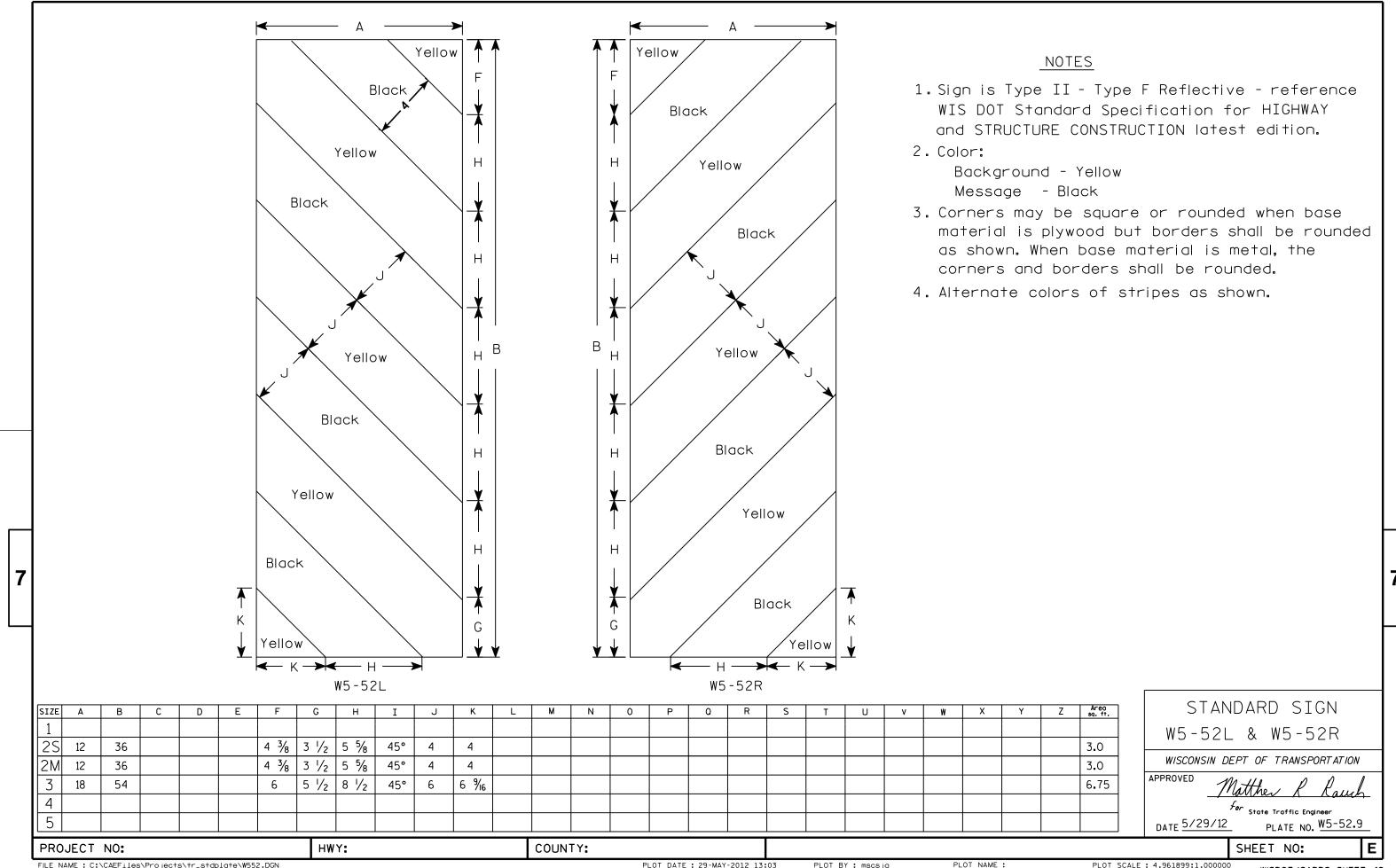
PLOT DATE . 11-416-2016 11:35

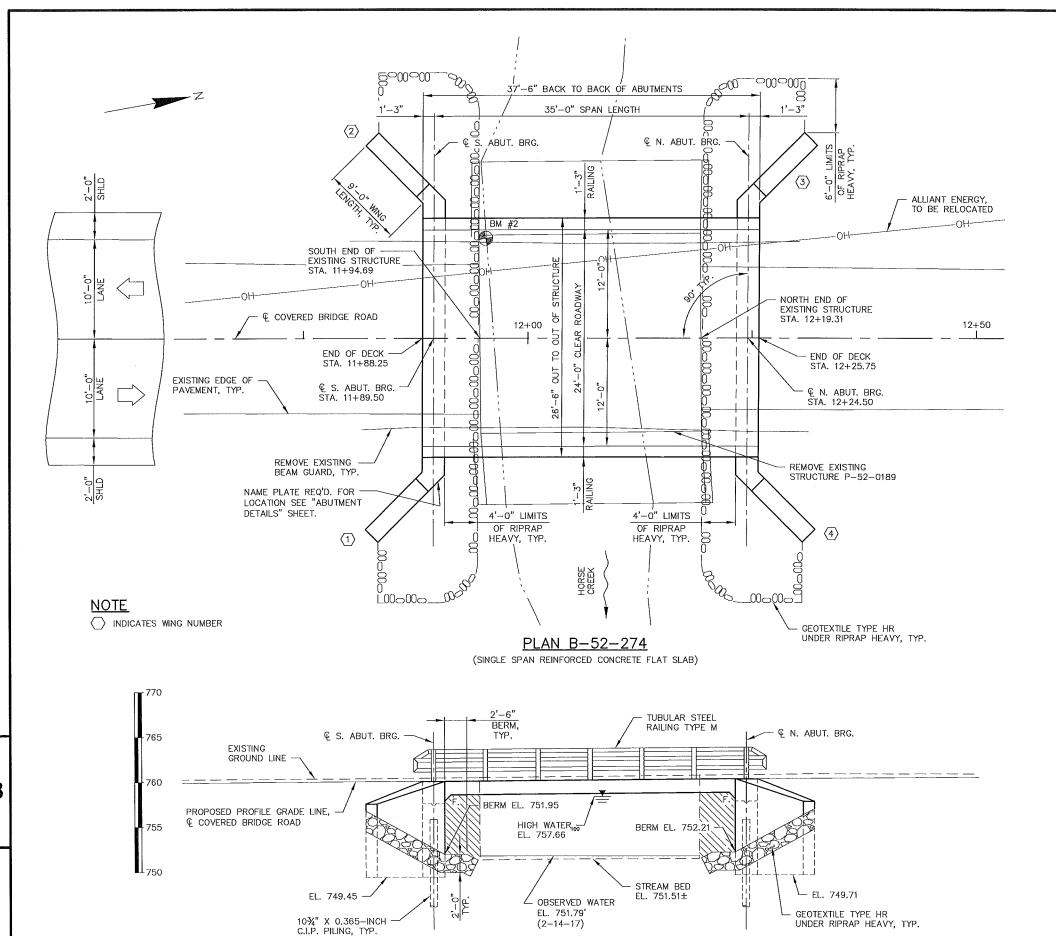
PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |







(2-14-17)

ELEVATION

(NORMAL TO HORSE CREEK, LOOKING WEST)

EXCAVATION AS INDICATED IN THE HATCH AREAS,

TO BE INCLUDED IN THE BID ITEM "EXCAVATION

FOR STRUCTURES BRIDGES B-52-274".

DESIGN DATA

5365-00-72

STATE PROJECT NUMBER

LIVE LOAD:

DESIGN LOADING HL-93 INVENTORY RATING FACTOR OPERATING RATING FACTOR RF=1.79 WISCONSIN STANDARD PERMIT VEHICLE RATING (WIS.-SPV): — 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY, SLAB f'c = 3,500 P.S.I.HIGH-STRENGTH BAR STEEL REINFORCEMENT f y = 60.000 P.S.I.

FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON $10\frac{3}{4}$ " X 0.365-INCH C.I.P. PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS* PER PILE AT THE SOUTH ABUTMENT AND 140 TONS PER PILE AT THE NORTH ABUTMENT AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 40 FT PILE LENGTHS AT THE NORTH AND SOUTH ABUTMENTS.

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES DYNAMIC FORMULA TO DETERMINE DRIVEN PILE

HYDRAULIC DATA:

0.00	1400) C.I	F. S.
DRAINAGE AREA	7.4	SQ.	MI.
BRIDGE WATER AREA	218	SQ.	FT.
BRIDGE VELOCITY	6.40	F.P	.S.
HIGH WATER 100 EL.	757.	66	FT
SCOUR CRITICAL CODE	5		
Q ₂ —	275	C.F.	S
Q2 ELEVATION —	753,	45 I	-T
Q2 VELOCITY	4.2	F.P.:	5.
	BRIDGE VELOCITY HIGH WATER 100 EL. SCOUR CRITICAL CODE Q2 Q2 ELEVATION	DRAINAGE AREA 7.4 BRIDGE WATER AREA 218 BRIDGE VELOCITY 6.40 HIGH WATER 100 EL. 757 SCOUR CRITICAL CODE 5 Q2 275 Q2 ELEVATION 753.	Q ₂ 275 C.F.

TRAFFIC DATA:

A.A.D.T.	(2019)	 95	
A.A.D.T.	(2039)	 105	;
DESIGN	SPEED -	 30	M.P.H.



BENCH MARKS .

NO.	STATION	DESCRIPTION	ELEVATION
BM #1	13+03.83	RR SPIKE IN POWER POLE, 17.14' LT.	759.46
BM #2	11+95.29	CHISELED 'X' IN SW CORNER OF BOX, 11.05' LT.	760.08

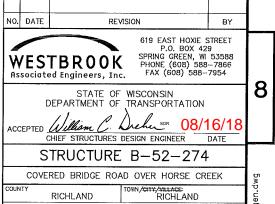
HORIZONTAL DATUM AND ADJUSTMENT: NAD 83 (2011) VERTICAL DATUM AND ADJUSTMENT: NAVD 88 (2011) COORDINATE REFERENCE SYSTEM: RICHLAND COUNTY

LIST OF DRAWINGS

- GENERAL PLAN
- CROSS SECTION, GENERAL NOTES & QUANTITIES
- SUBSURFACE EXPLORATION
- ABUTMENTS

UNDER RIPRAP HEAVY, TYP.

- ABUTMENT DETAILS
- SUPERSTRUCTURE
- SUPERSTRUCTURE DETAILS
- TUBULAR STEEL RAILING TYPE M



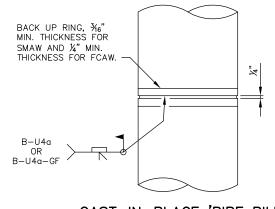
BRIDGE OFFICE CONTACT WILLIAM DREHER, P.E. (608) 266-8489 CONSULTANT CONTACT ANDY KNUTSON, P.E.

(608) 588-7866

AASHTO LRFD BRIDGE DESIGN SPEC. ESIGNED JDO CK'D. CDS BY JDO CK'D. CDS GENERAL PLAN

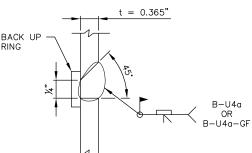
SHEET 1 OF 8

ITEM NO.	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 12+07	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-52-274	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	240	240		480
502.0100	CONCRETE MASONRY BRIDGES	CY	37	37	72	146
502.3200	PROTECTIVE SURFACE TREATMENT	SY	17	17	131	165
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2165	2165		4330
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	ПB	1520	1520	13630	1667
513.4061	RAILING TUBULAR TYPE M B-52-274	ΤF			80	80
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	6		12
550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	ΤF	280	280		560
606.0300	RIPRAP HEAVY	CY	28	27		55
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	70		140
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	43	43		86
645.0120	GEOTEXTILE TYPE HR	SY	73	72		145
NON-BID ITEM) FILLER	SIZE				1/2" &

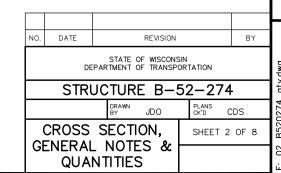


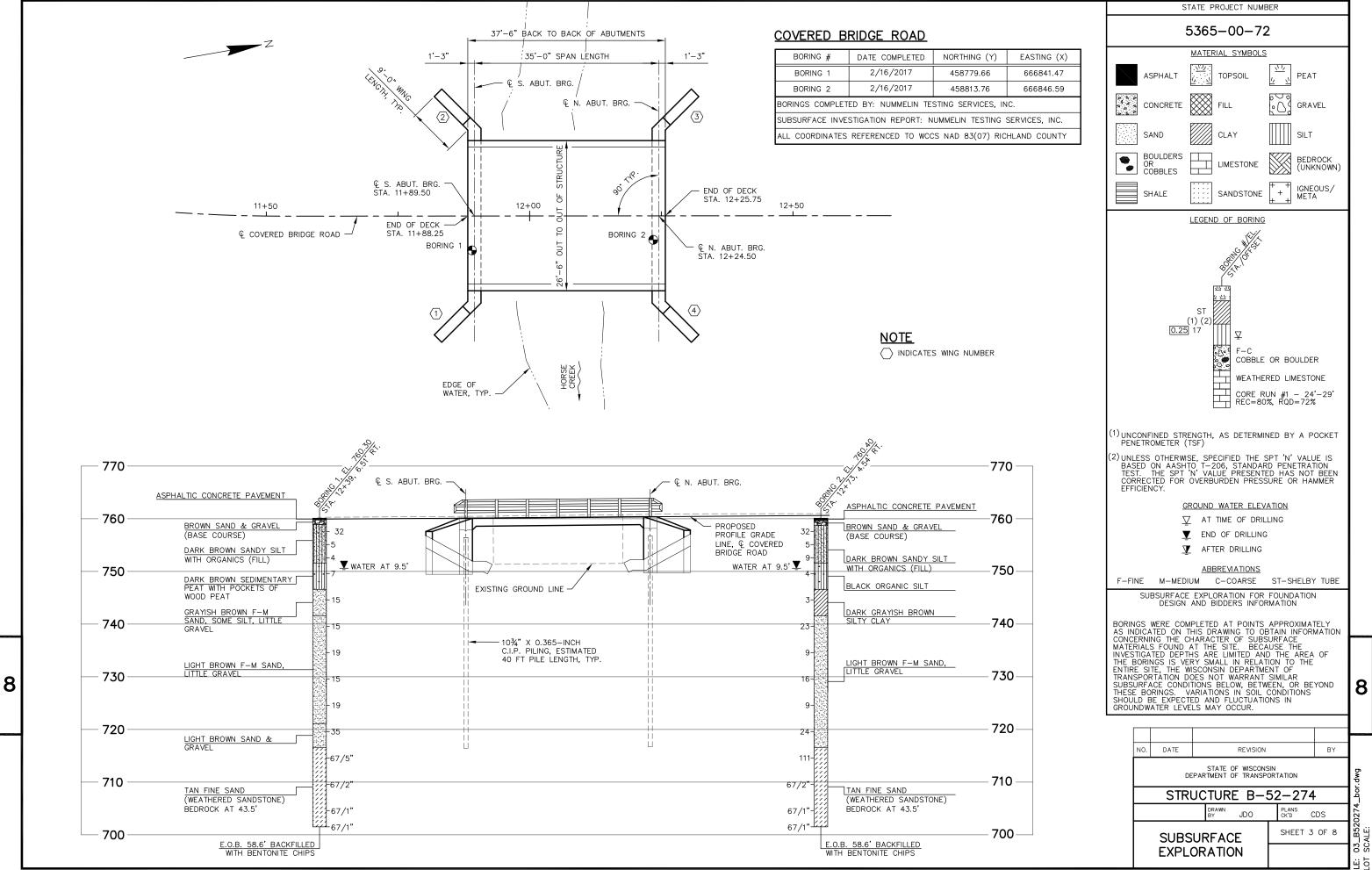
CAST-IN-PLACE 'PIPE PILE'

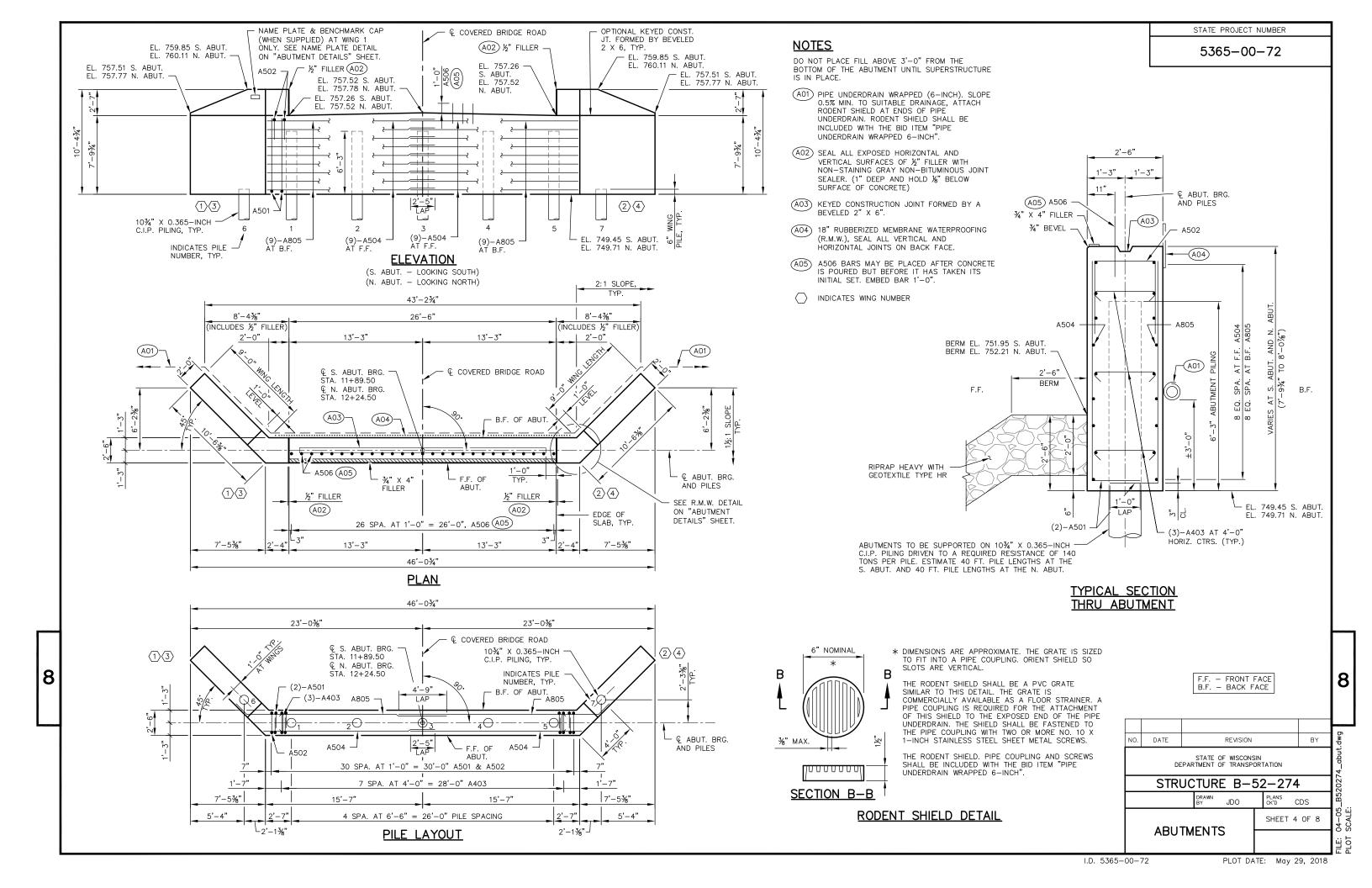
NOTE: CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION.

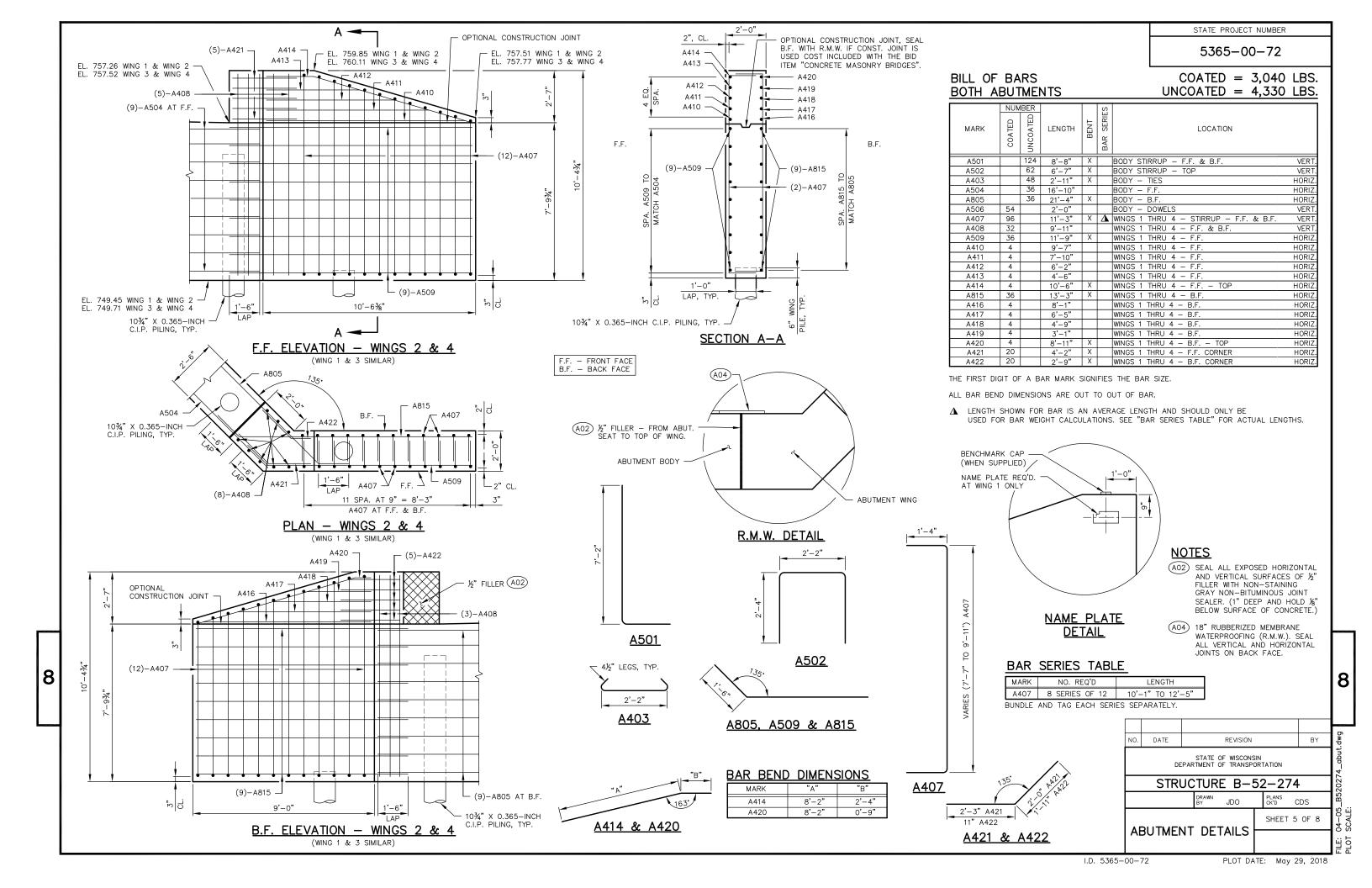


C.I.P. PILE WELD DETAIL



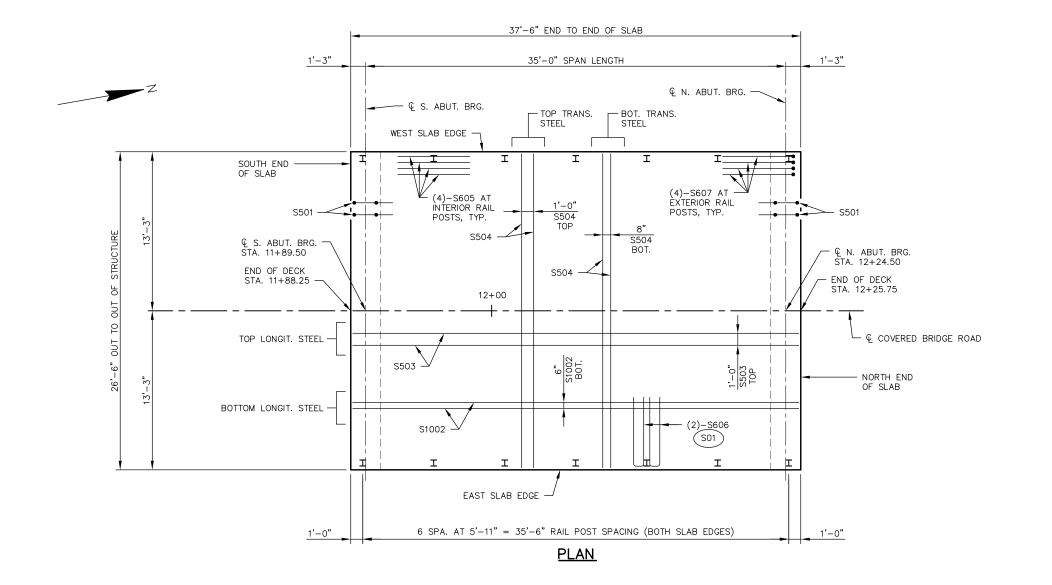






STATE PROJECT NUMBER

5365-00-72



NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY.

BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0'' CENTERS.

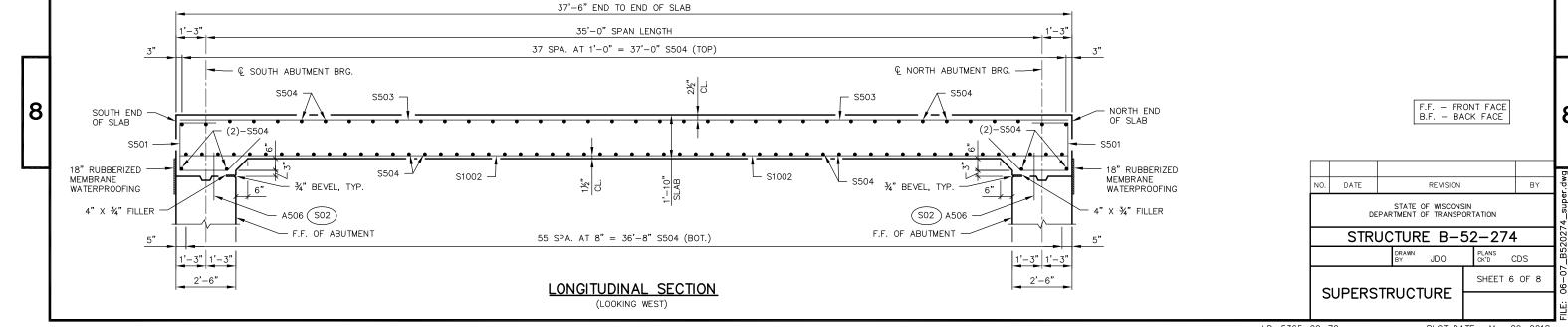
ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

RAILING TO BE PLACED ON THE SLAB AFTER FALSEWORK HAS BEEN RELEASED.

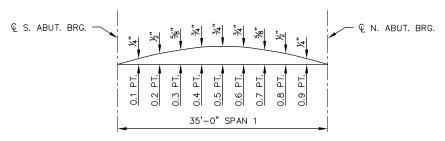
SO1 ADJUST ORIENTATION OF S606 BAR AT END POST TO ENSURE CLEAR COVER AT END OF DECK.

(SO2) SEE "ABUTMENTS" SHEET FOR PLACEMENT OF A506 BARS.

TOP	OF DECK	K ELEVA	TIONS		
SPAN PT	W. SLAB EDGE	© COVERED BRIDGE ROAD	E. SLAB EDGE		
€ S. ABUT.	759.85	760.11	759.85		
0.1	759.87	760.13	759.87		
0.2	759.90	760.16	759.90		
0.3	759.93	760.19	759.93		
0.4	759.95	760.21	759.95		
0.5	759.98	760.24	759.98		
0.6	760.01	760.01			
0.7	760.03	760.29	760.03		
0.8	760.06	760.32	760.06		
0.9	760.08	760.34	760.08		
Ç N. ABUT.	760.11	760.37	760.11		



5365-00-72



SLAB CAMBER DIAGRAM

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKNESS CAMBER

PLUS

FLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR) EQUALS TOP OF SLAB FALSEWORK ELEVATION.

SURVEY TOP OF SLAB ELEVATIONS

	€ S. ABUT. BRG.	5/10 PT.	€ N. ABUT. BRG.
WEST SLAB EDGE			
© COVERED BRIDGE ROAD			
EAST SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE $\mathbb Q$ OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

BILL OF BARS **SUPERSTRUCTURE**

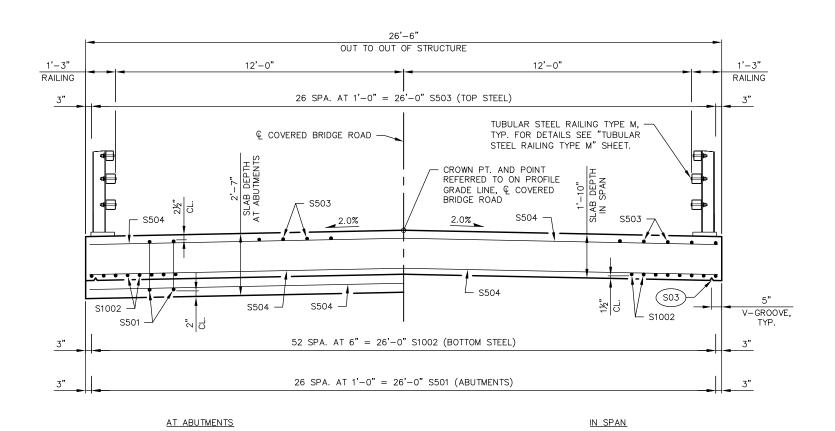
COATED = 13,630 LBS.

MARK	COATED Z	UNCOATED 3	LENGTH	BENT	BAR SERIES	LOCATION	
S501	54		7'-5"	Χ		SLAB AT ABUTMENT - TIES	LONGIT.
S1002	53		37'-2"			SLAB - BOTTOM	LONGIT.
S503	27		37'-2"			SLAB - TOP	LONGIT.
S504	98		26'-2"			SLAB - TOP & BOTTOM	TRANS.
● S605	40		6'-0"			RAILING ANCHORS - INTERIOR POSTS	LONGIT.
● S606	28		12'-0"	Х		RAILING ANCHORS	TRANS.
● S607	16		5' – 10"	Χ		RAILING ANCHORS - END POSTS	LONGIT.

THE FIRST OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

() SEE "SUPERSTRUCTURE" SHEET AND "TUBULAR STEEL RAILING TYPE M" SHEET FOR PLACEMENT.



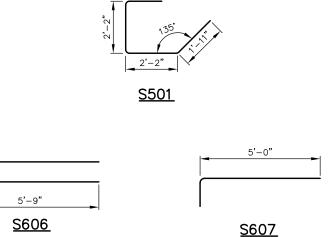
CROSS SECTION THRU ROADWAY

(LOOKING NORTH)

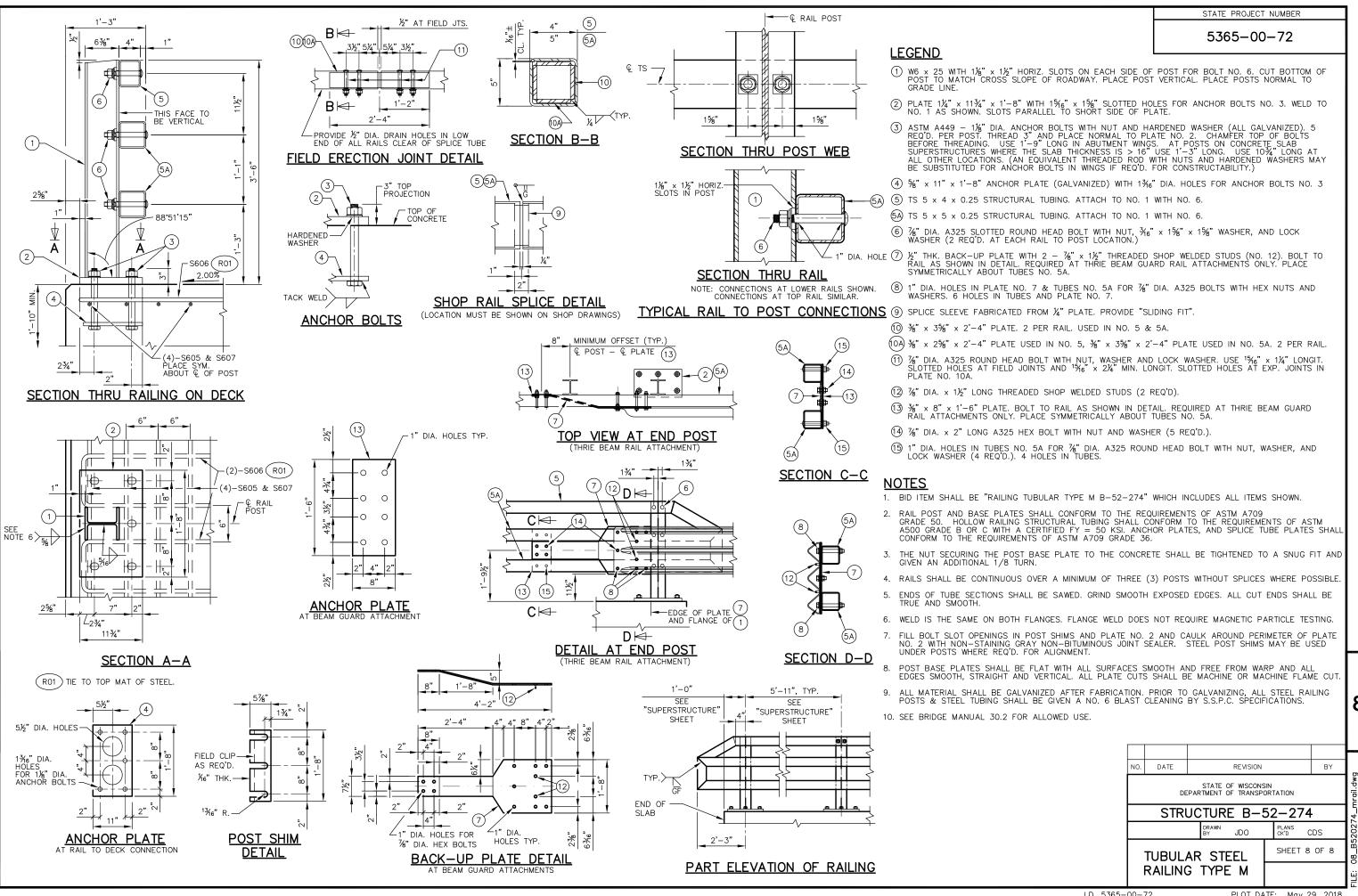
NOTES

CAMBER SPAN AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

(SO3) 34" V-GROOVE REQUIRED. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT.



NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-52-274 CDS SHEET 7 OF 8 **SUPERSTRUCTURE** DETAILS



MAINLINE EARTHWORK (I.D. 5365-00-72)

APPROACH 1

APPROACH 2

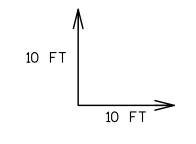
		C	ommon E	xc		Fill	Shrinkage	Total			Co	mmon	Exc		Fill	Shrinkage	Total
 Station	Length(ft)	Area	yd3	Adj. vol	Area	yd3	Factor(30%)	(CY)	Station	Length(ft)	Area	yd3	Adj. vol	Area	yd3	Factor(30%)	(CY)
10+00.00		25.7			0.0				12+25.00		32.0			6.0			
	50		43	43		3	3.9	39.1		25		29	30		5	6.5	22.5
10+50.00		21.2			3.2				12+50.00		31.5			4.3			
	50		37	37		9	11.7	25.3		50		52	52		7	9.1	42.9
11+00.00		18.9			6.7				13+00.00		24.5			2.9			
	50		45	45		13	16.9	28.1		35		31	31		2	2.6	28.4
11+50.00		29.2			7.0				13+35.00		23.7			0.0			
	38		42	42		10	13.0	29.0									
11+88.00		31.0			7.0												

STRUCTURE B-52-274

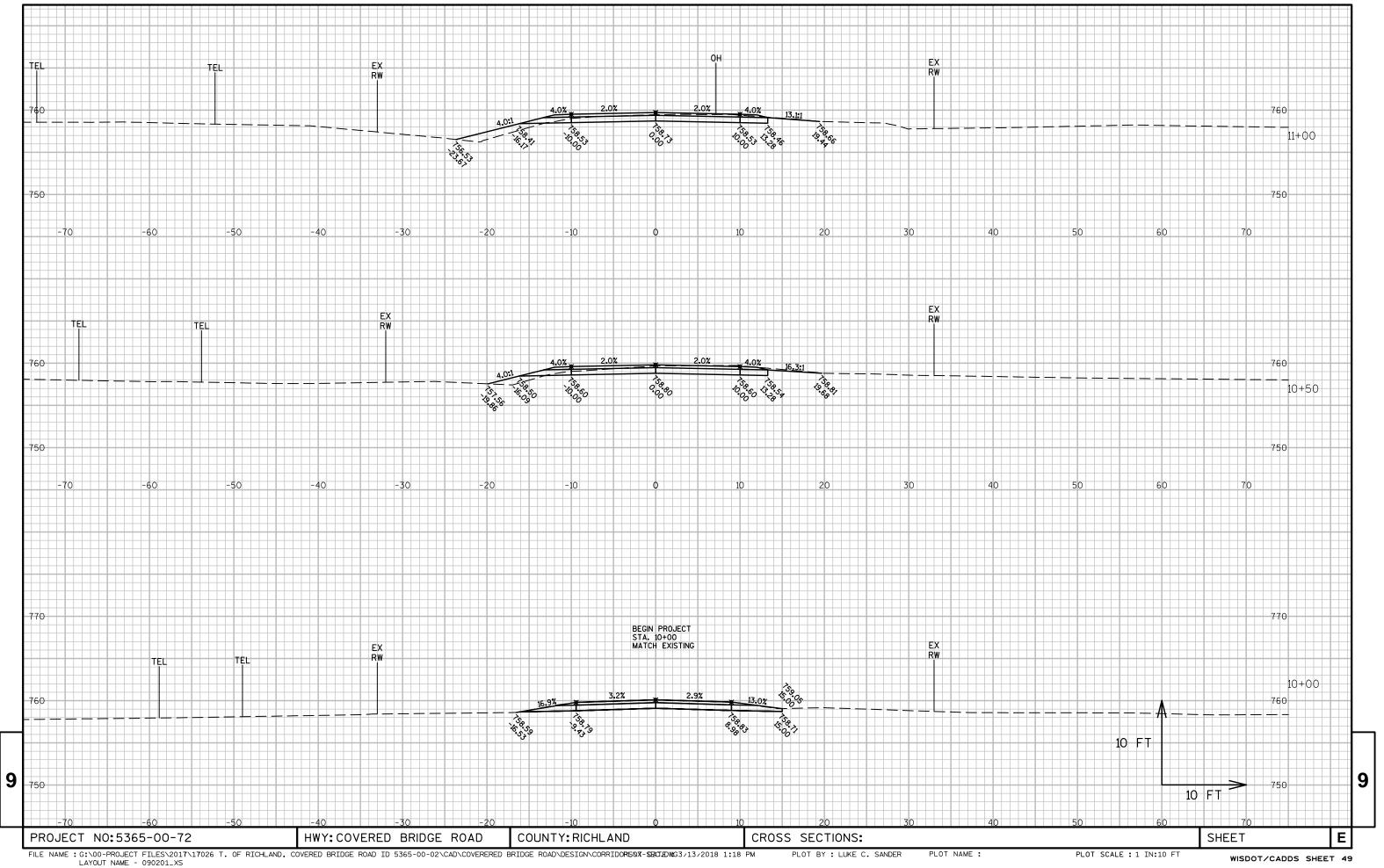
Subtotal	167	167	35	46	121	Subtotal	112	113	14	18	95

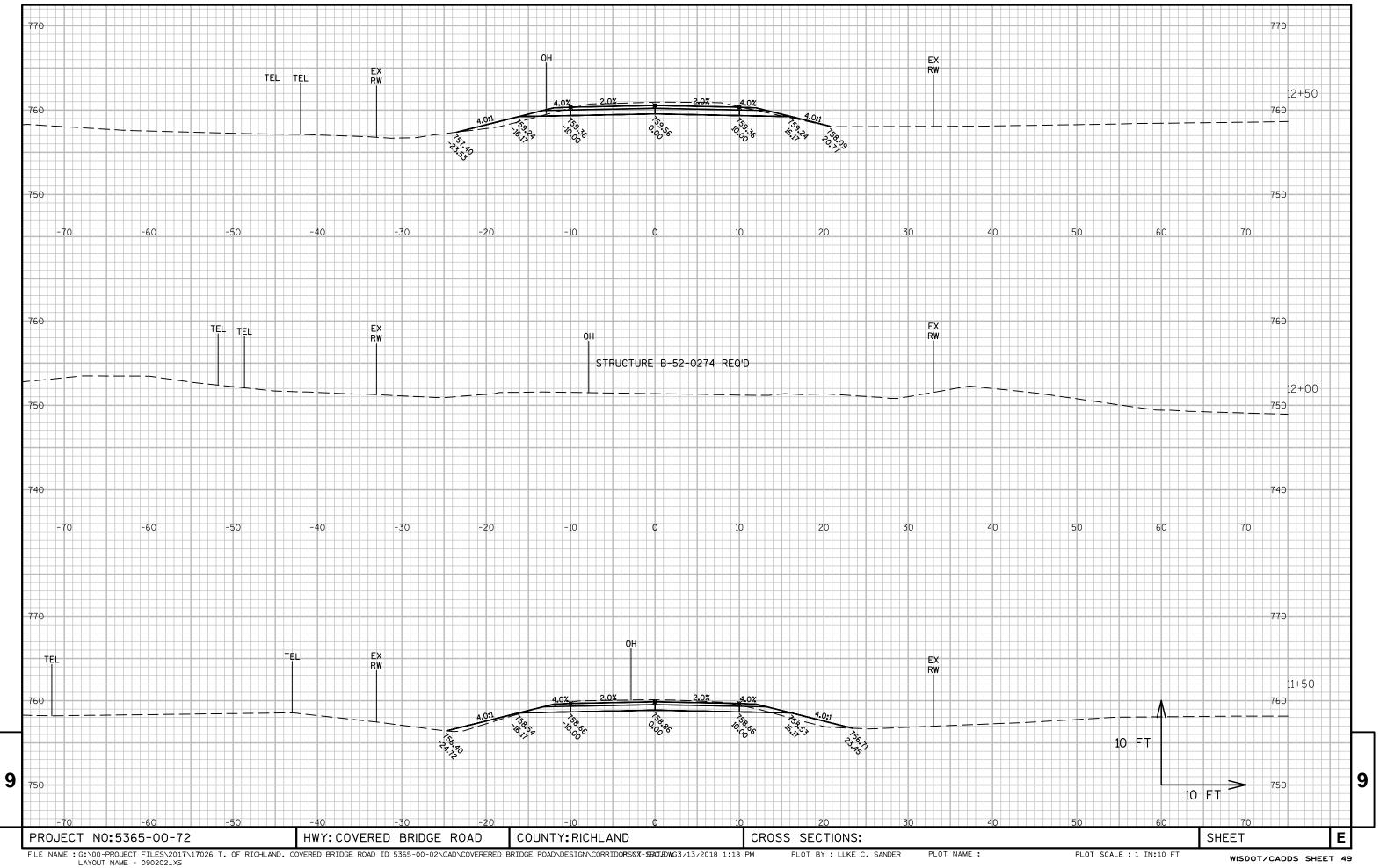
TOTAL EXC= 279 ROUND TO= 280

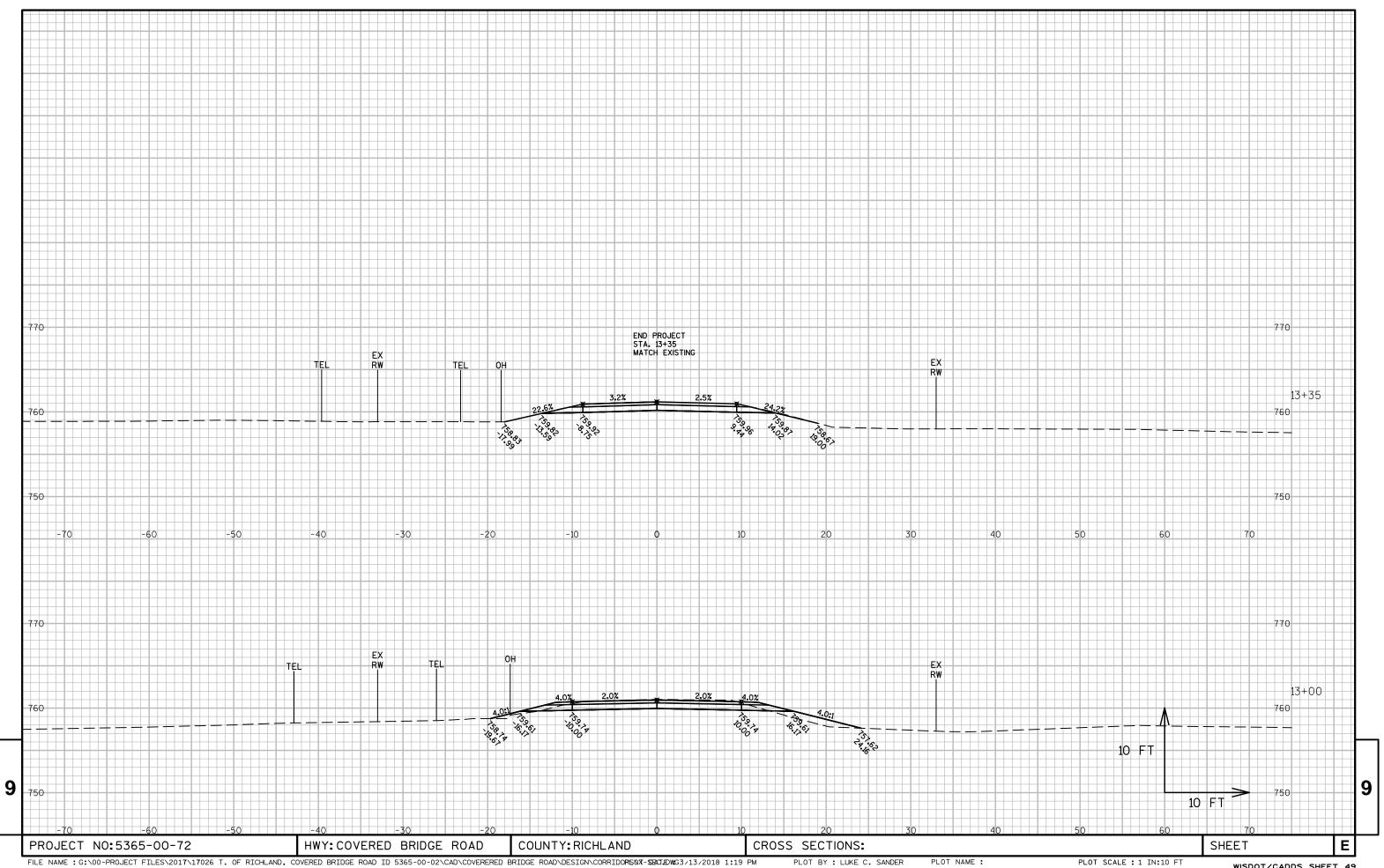
EARTHWORK SUMMARY										
COMMON	=	280 CY								
FILL	=	49 CY								
SHRINK	=	30 %								
WASTE	=	216 CY								



HWY: COVERED BRIDGE ROAD COUNTY: RICHLAND EARTHWORK SHEET PROJECT NO:5365-00-72 Ε PLOT NAME :









Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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